



NPC Photo Division

## PROBACK II

### INSTRUCTIONS FOR USE

ProBack II uses any Polaroid 3 1/4 x 4 1/4 film pack ( 105, 107, 108, 665, 667, 668, 669 ). It is capable of making two independent exposures on one sheet of film, each image is 24mm x 36mm.

- \* Load the film chamber according to the instructions supplied with the film
- \* Make the first exposure
- \* To position the film for the second exposure align the end of the black nylon tab with the end of the white paper tab, holding them together, pull until the black nylon tab is fully extended ( this procedure moves the film inside the chamber ), now you may make your second exposure.
- \* Pull the white tab completely out
- \* Pull yellow tab with black arrows straight out without stopping
- \* Begin timing of processing now

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The free-floating fibre optic plate should be treated like any fine lens, clean when necessary with a commercial lens cleaner or pure alcohol.

When transporting your ProBack II we suggest that you keep a partially loaded film pack in the chamber. This will minimize the amount of vibration the fibre optic plate receives.

Please check the rollers in the film chamber after every 2 or 3 packs of film. To ensure accurate exposure and properly developed images they should be cleaned regularly. Instructions on removing the rollers for cleaning are found inside the film chamber on the rear door. Warm water and q-tips or a soft cotton cloth are the items recommended for cleaning the rollers.

Your NPC/Polaroid back uses the following films:

- Type 669 Polacolor ER (Extended Range) film
- Type 668 Polacolor 2 professional film
- Type 667 High-speed coaterless B&W film
- Type 665 Positive/negative B&W film
- Type 664 B&W, medium contrast, professional film
- Type 611 B&W film for video image recording
- Type 612 Ultra high-speed high contrast B&W film for CRT and instrument recording
- Type 108 Polacolor ER film
- Type 107 High-speed B&W film
- Type 107C High-speed coaterless B&W film

Each pack produces 8 prints, 3¼ x 4¼ in. (8.3 x 10.8 cm); Type 665 film also produces 8 usable negatives.

The numbers throughout the text refer to the illustrations on the back of this sheet.

## LOAD THE FILM

**Unlock and open the door:**

Pull down the ends of the cover (1-B) and open the door.

Before loading, check that the steel rollers are clean. Dirt on the rollers may cause a number of picture problems, such as repeated spots or bars on pictures, poor colors and jammed film. If necessary, clean the rollers as explained in Figure 12.

Hold the filmpack by the edges only. Push the closed end of the pack in at an angle. Then push it down into the holder (2). You will feel it snap into place.

Check that the white tabs are free, as shown (3), not caught between the pack and the film holder.

**Close and lock the door:**

Hold the door closed and push the cover up over the end of the camera back (4), so it clicks into position.

The end of the safety cover (4-E) must stick out of the holder. If it does not, reopen the door and straighten the tab so that it does.

Grip the black tab firmly and pull it straight, all the way out of the holder (5).

When the safety cover is removed, a small white tab (5-F) should stick out of the slot. If not, carefully open the door and push the tab out. Close and lock the door, with the white tab outside.

The holder is now loaded and ready for the first exposure.

## MAKE THE EXPOSURE

Follow the instructions provided with your equipment.

## PROCESS THE FILM

You must pull the film tabs **straight out**, to assure proper picture development. It may be necessary to brace the holder while pulling the tabs, so that you do not disturb your equipment set-up.

**Pull the white tab:** Grasp the small white tab and pull it straight out of the film holder (6). This causes a large yellow tab (6-G) to appear.

**Pull the yellow tab:** Grip the yellow tab in the center and pull it straight, at moderate speed, without hesitation, all the way out of the film holder (7). The picture is now developing, so start timing. The recommended development time is specified in the film instructions. Do not disturb the print while the film is developing.

After the full development time, separate the print from the negative, starting at the end nearest the yellow tab (8). Do now allow the print to drop back onto the damp negative. See CAUTION.

The film instructions contain full details on the care and handling of prints and negatives.

## IF NO YELLOW TAB APPEARS WHEN YOU PULL THE WHITE TAB, STOP!

Do not pull another white tab. Instead, do the following in dim light:

Carefully open the holder without moving the film pack. You can use a fingertip to make sure the pack doesn't move (9).

Take hold of the yellow tab that failed to come out, and gently pull it all the way out of the holder (10) and discard it.

While the door is open, clean the developer rollers and the yellow tab slot if necessary.

Close and lock the door, with the next white tab outside.

## IF YOU ACCIDENTALLY PULL TWO WHITE TABS IN A ROW

You will get two yellow tabs out at the same time. Both pieces of film will be ruined, and unless you are careful, you may lose a third picture.

Do not open the holder. Grip both yellow tabs firmly, pull them both out together, and discard both pieces of film. This may cause developer to be spread around the inside of the holder. Open the door and, without disturbing the film pack, clean the holder and developer rollers.

## KEEP THE DEVELOPER ROLLERS CLEAN

With both hands, lift the steel loops, and remove the roller assembly (11).

Clean both rollers with a soft, lint-free cloth, dampened with water if necessary (12). Or, hold the roller assembly under clean running water. Rotate both rollers as you clean and inspect them. (Note that one roller turns more easily than the other.) Never scrape the rollers with anything metallic, nor with your fingernail; do not attempt to disassemble the rollers.

Blow out any dust or lint in the back of the camera. Also clean the film tab slot (13). Then replace the roller assembly: Slide the rollers into position, then, using both hands, push the steel loops down flat.

**Important:** When ordering replacement rollers, specify the color of the plastic part of the roller assembly (red, black, gray), to ensure that you receive the correct rollers for your camera.

## POSSIBLE PICTURE FAULTS, THEIR CAUSE AND CURE

**Repeated white spots (14):** Marks like these are caused by dirt on the steel rollers.

Inspect these rollers before loading film, and clean them if necessary.

**Curtain-shaped mark or broad streak (15):** If the yellow tab is pulled part-way and then stopped briefly, one of these marks will result. When the hesitation occurs early in the pull, a curtain-shaped mark (15-H) along the picture edge will occur. When the pull is stopped about half-way you are likely to get a broad streak (15-1).

Always pull the tab out in one uninterrupted motion.

**Oblong in print (16):** This indicates that you did not pull the white tab all the way out. When you pulled the yellow tab, that white tab was pulled back into the holder, thus spoiling the picture.

Always pull the white tab all the way out.

**Undeveloped edges or corners (17):** these are usually caused by pulling the yellow tab out at an angle. This prevents the developer from being spread evenly over the picture. With color film, pulling the tab at an angle will generally result in orange red marks along the edge or in a corner of the print.

Always pull the yellow tab straight and smoothly, all the way out.

**Many small white specks (18):** These are a sign that you pulled the yellow tab too swiftly. Pulling the tab too fast can also cause pink lines, streaks or blotches on color prints.

Try to pull the yellow tab a little less rapidly.

**Muddy looking print:** The picture was not developed long enough.

Develop films for the full time recommended in the instructions.

Underdeveloped color prints will tend to be a brownish pink.

**Very light image or none at all:** The film was greatly overexposed or it was accidentally fogged.

Be sure your exposure is based on the correct film speed.

The film will be fogged if you pull out the safety cover before putting the film pack in the film holder, or if you remove the film pack from the holder after having pulled out the safety cover.

**Nearly black image or solid black:** If no detail at all is visible, your equipment may not be functioning properly. Have it inspected. If you are using a manual shutter cocking device, you may have forgotten to cock the shutter.

If the print is very dark, but shows a few faint details, you may have to set your equipment for too high a film speed.

If you are making oscilloscope trace recordings and cannot get a sufficiently bright image, the film you are using may not be fast enough for the type of trace you are photographing.

## CAUTION:

The Polaroid Land film process uses a caustic jelly which is safely packed inside sealed containers within the metal-plastic film pack. **If accidentally you should get some of this jelly on your skin, wipe it off immediately.** To avoid an alkali burn, wash the area with plenty of water as soon as possible. **It is particularly important to keep the jelly away from eyes and mouth.** Keep discarded materials out of reach of children and animals, and out of contact with clothing and furniture, as discarded materials still contain some jelly.

## FREE AND RAPID TECHNICAL ASSISTANCE

If you ever need additional help in the use of your Polaroid Land camera back, or advice on any other photographic problem, you may call us free of charge, Mon. - Fri., 9 AM to 8 PM (Eastern Time). From anywhere in the continental U.S.A. except Massachusetts, call toll-free at 800-225-1618. From Massachusetts, call collect at (617) 547-5177. From anywhere in Canada except British Columbia call toll free at 800-268-6970; from British Columbia call 112-800-268-6970. Or, write to Technical Assistance, Polaroid Corporation, 575 Technology Square 2M, Cambridge, MA 02139.

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